

SEQUENCE LISTING

<110> Henderson, Robert A.
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 Johnson, Jeffrey C.
 Retter, Marc W.
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY
 AND DIAGNOSIS OF LUNG CANCER

<130> 210121.478C17

<140> US

<141> 2001-07-10

<160> 2002

<170> FastSEQ for Windows Version 4.0

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<213> Homo sapiens

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aactacaaga cggtagagtc tttggaagaa accttgaaga aagcgtctcc tgatggttat 180
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ccccaggcc cccccaga gattgttatt tatcaggagc ttgcgatgga agcttttgtc 360
gtctaccgct ggcaaggaga tgcccgcmaa aaagctctga aggacttgct gaaatgggtc 420
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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gccattgtgg	tgactgatgg	agagcgtatt	cttggtctgg	gagaccttgg	ctgtaatgga	240
atgggcatcc	ctgtgggtaa	attggctcta	tatacagctt	gcggagggat	gaatcctcaa	300
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<212> DNA

<213> Homo sapiens

<400> 7

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atatcttttg	ataatgttat	ttctatTTTT	tatttttttt	cattagaagt	taccaaatta	180
agatggtaag	acctctgaga	ccaaaatttt	gtcccatctc	tacccctca	caactgctta	240
cagaatggat	catgtcccc	ttatgttgag	gtgaccactt	aattgctttc	ctgcctcctt	300
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<210> 8

<211> 406

<212> DNA

<213> Homo sapiens

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ctgtgttaaa	gatgctgcta	atgtcagtca	ctgggtgcac	taaaggatct	cttattttat	180
gtaaaacggt	gggattgaca	agatagatct	gatactctgt	taagttaccc	tctgaagcta	240
cttcttgtga	aatactaata	acagcatcat	cctgccaaagc	gaaagaggca	ggcataagca	300
aggacaaatt	aaaagggggg	aagagcctta	tcattgatgag	gagtccttgt	ttgacatctt	360
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<210> 9

<211> 330

<212> DNA

<213> Homo sapiens

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ctctggcctt	ccgagaagg	accatcaatg	tccacgacgt	ggagacacag	ttcaatcagt	180
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330

<210> 10

<211> 449

<212> DNA

<213> Homo sapiens

<400> 10

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<210> 11

<211> 472

<212> DNA

<213> Homo sapiens

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tccaaagaga aaggtacggc ctccaagggg gcagcttaag ccaacatgta agacttgggc 240
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tactggaagg caggagcagt ttcttctttt tcccactctg tgctgggtac ttgggagagg 360
cgaaataaat accagactgt ccactcctca gcctaaggtc cttctcaagt cctgcacact 420
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<210> 12

<211> 371

<212> DNA

<213> Homo sapiens

<400> 12

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gtccacaggt acctaccccc tggactgcag caactttatt accttaacta gcacaraaca 180
gaggttgatt taaactcctt acactcactt ctcaratcaa tgaatgggca aaaaaacmcc 240
tcatggctct ggggaaggcat gctgaracct gtttttgcaa gtcctgagga atggaaraat 300
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<212> DNA

<213> Homo sapiens

<220>

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 gaatgttggg gtg 493

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 <212> DNA
 <213> Homo sapiens

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 tgtctttgta ttctggtaca tcgtcgtact gcacactttt ctttgtagag gatctgaagg 480
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 <211> 421
 <212> DNA
 <213> Homo sapiens

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 gtgagcaggg caaagcctgc taggagcaga atgacctga ggatccttg ctcagaactg 420
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<210> 16
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 <212> DNA
 <213> Homo sapiens

<400> 16


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gaagtgggtc attcctttgt ctgaaggagc gacaggagca tctacggttg agaagacaga 180
aagtttggct tcgtcgatgt cttgctgtgt gaattttcca gacttagccc agtcga 236

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<210> 17
<211> 424
<212> DNA
<213> Homo sapiens

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<400> 17
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agcagatgca gatgataata ttcttgatta ctcgatgga atggaagaaa tatttggttc 180
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atctggtggt gagacttgca tttatccaga caaaaaatct gagggagtaa gaatttcac 420
atgg 424

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<210> 18
<211> 154
<212> DNA
<213> Homo sapiens

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<400> 18
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cacaagagac ttaaaggaca ggaggaggag atgg 154

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<210> 19
<211> 445
<212> DNA
<213> Homo sapiens

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<400> 19
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caccaatagt gaggaaatca ttgaaggaga atataatacg gtgatgctgg caataggaag 180
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ctgtatttac tcctttggaa tatgg 445

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<210> 20
<211> 211
<212> DNA
<213> Homo sapiens

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ctgggttcgt cccagtgag accggaggat gatcccccga ggactgcgca gcatcagctc 180

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ttggtgggcc tctgccttct cttctgtttg g

211

<210> 21

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<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 277

<212> DNA

<213> Homo sapiens

<400> 22

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tccatcttct	ggttgagggg	atccacaaac	cactcatccc	ccatgaaatt	gcaggccatg	180
tctacatctc	cattatataa	taggatctgg	gatttctgtg	agctaagcag	cttcagatac	240
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<210> 23

<211> 634

<212> DNA

<213> Homo sapiens

<400> 23

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gggattcatt	ggcaaataat	ttcagtgtgg	tgtattatta	aataagaaaa	aaaaattttg	540
tttcctaggt	tgaagggtcta	attgatacgt	ttgacttatg	atgaccattt	atgcactttc	600
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<210> 24

<211> 512

<212> DNA

<213> Homo sapiens

<400> 24

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aaagaaaaat	cataaaaaatc	ataaaaagtt	atttctttga	aaagatcaat	gaaatttagc	120


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aagactgaca cagataaaaa ggaattagac ccaaatcagt gaacaggaat gaaatagagg 180
atatcactac agaggctgca gccattgaaa ggataattag gaaatccac agataacttt 240
gtgctcataa atttgacaat gtagaggaaa tatctttagt ttttaattagc tttttatttt 300
agtttttctc aaaaactaaa acttaataaa actcaaccaa gacaaaatag acaatcagaa 360
tgtaggcata cctcagagat gtggcggatt tggtttcaga ctactgcaat aaaccaaata 420
tggcaataaa aggagtcaca gaaagtgggt tcccagtgtg tatatataaa agttacattt 480
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<210> 25
<211> 461
<212> DNA
<213> Homo sapiens

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aaagaacatt cgtgggtgggt tagtgatgag gttaatatc ccctctgtgc cacctccaca 180
ttggaaaaac cacgttggac tgagttttga ggagcaaaga actaatcact tgaccaaagg 240
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ggatacctga aaatgtgatt ttatatattc ttggcatcca ggggagaaaa atcaaaaagc 360
aaggaagtta cagttatctc ccagaaatt aatgggtcat gtcaagacta taggttttca 420
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<210> 26
<211> 317
<212> DNA
<213> Homo sapiens

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<400> 26
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atgaatttca cgaggctatc atctaacagt gggggctttc tacacacgtg gtgccaaaat 180
gtgtcattct gagtcaattg caattcctct ctaggagtga aaagagataa aagataagcc 240
aagaaccctg gacagattct tgggtgttggg gacaaagagg aaaggacctg agaatggggc 300
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<210> 27
<211> 250
<212> DNA
<213> Homo sapiens

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<400> 27
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ataagcmaga tctaagaagt tatcaaaact attctttaaa atgctaaagc aggtaacttt 120
ttcttccatt attttttccct cctaccactg agttttgtaa tgaattcctt gtgtatacaa 180
gcaatacagg tgaatactaa actgttattt tttagcttctt caaaagctat tttagaaagc 240
ttcctggaaa 250

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<210> 28
<211> 532
<212> DNA
<213> Homo sapiens

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<400> 28

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cctatatcat tcatttatac agaagctgct tgctgcttag caagttggtg ggtttgattt 60
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tgctgtctcc cttgccacaa ctctgaccaa gattgcattg cgctatgtag ctttggttca 180
ggagaagaaa aagcaaaatt cttttgttgc tgaggctatg ttgctcatgg ctactatcct 240
gcatttggga aaatcctctc ttccctaagaa gccaatctact gatgatgatg tggatcgaat 300
ttccctgtgc ctcaaggtct tgtctgaatg ttcaccttta atgaatgaca ttttcaataa 360
ggaatgcaga cagtcctctt ctcacatgtt atctgctaaa ctagaagaag agaaattatc 420
ccaaaagaaa gaatctgaaa agaggaatgt gacagtacag cctgatgacc ccatttcctt 480
catgcaacta actgctaaga atgaaatgaa ctgcaaggaa gatcagtttc ag 532

```

```

<210> 29
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 29
ctgttttttg acttaattaa cywttgcaag tggaaaccaa gaaataattg tagcataact 60
ctctctattg tcatgttgct tctttctgca aatatactt acaagttaga ctttaaacct 120
ttgatctccc acaccaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag caggbgttta aaaatttttag aatttctttt taacaaaatc 240
aaatacattg ttaaggtaac aaagaataat tcactatttc agcatttcaa agcaacatat 300
tctacaactt caaagatatt tgcaaaaata atacaactgt tgaagttcaa atgttatgga 360
aagaaacatt agaagtatga aaagtggtag aaaaacatgt ttctttttat tctcttggat 420
atatatctat atatttagga aaatacatat atgtatgtgt atgtatatat atgtatgaaa 480
atatac 486

```

```

<210> 30
<211> 240
<212> DNA
<213> Homo sapiens

```

```

<400> 30
aagacctgag gaaggaaaac aaattggcct cctgctgaag aakcaaaata gacatttttt 60
aatgtctctt gaccccagtt ccaagttcac cctgttgctt gttcttctc ccaccttttg 120
gggttctata actgcatccc ccacacatct ttcaccacca ccccatatcat accagctctc 180
ctgttggtggg attcaggaca taggaagagt tgctgaaggc acgggtgctt ttgggattcg 240

```

```

<210> 31
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 31
ccattgatgc aggatatcgg cacattgact gtgcctatgt ctatcagaat gaacatgaag 60
tgggggaagc catccaagag aagatccaag agaaggctgt gaagcgggag gacctgttca 120
tcgtcagcaa gttgtggccc actttctttg agagaccctt tgtgaggaaa gcctttgaga 180
agaccctcaa ggacctgaag ctgagctatc tggacgtcta tcttattcac tgg 233

```

```

<210> 32
<211> 233
<212> DNA
<213> Homo sapiens

```


<400> 32
gaggaatgct ggactggagg cccctggagc cagatggcaa gagggtgaca gcttcctttc 60
ctgtgtgtac tctgtccagt tccttttagaa aaaatggatg cccagaggac tcccaaccct 120
ggcttggggg caagaaacag ccagcaagag ttaggggcct tagggcactg ggctgttgtt 180
ccattgaagc cgactctggc cctggccctt acttgcttct ctagctctct agg 233

<210> 33
<211> 319
<212> DNA
<213> Homo sapiens

<400> 33
ctgggcctgg atggtctagg atagccttac tcacttgctt ggcaggtgac aggcgtgttg 60
ctggaattgc ttggttctcc tccatgtggc ctctccagta ggctagctca ggcttattca 120
catgatggct tcaggattcc aaagagagtg agagtagaag ctgaaagact tcttgagttc 180
ttggcctgga actgggacta ggacagtgtc acttctgcta agttcttttg gtcagagcaa 240
atcacaaggc tttaccaga ttcaagggat gagaaacaga ctacatgtct tgatgagggg 300
aaccacaaag agcttgttg 319

<210> 34
<211> 340
<212> DNA
<213> Homo sapiens

<400> 34
tacagattta attcatgtta ttaactccct gccttttacc tcctccctcc tcccttggca 60
caactgccag atggatgtgg ctggaagtca gaggacattc tcgtgggttc gtgggcctag 120
ggtacaaatg acctcagcgt gacagcaaac aggacagaga agaccaggct ctactcagg 180
aatccaccag ccaggagaat gacaatgttg aacaccggaa ccctgatgat atctgtcaca 240
tttgtaagggt tgatttcaga gtcaggagtg gagacatcgg cagttgactt ggggtggagct 300
tgggtcacag ttctggggct ggtatagagt gggcacaagg 340

<210> 35
<211> 170
<212> DNA
<213> Homo sapiens

<400> 35
acatgggtcc ttcactcctc gctgagatgt tgcggcagcc ttttcttcca atgcggttgt 60
ggcaggagaa tccacggatg taatgttttc acctttttcc ctgaggggtgc tttctgagga 120
accagycctt aagagggtggg gtcttggatt cctgacctag gcgtccggca 170

<210> 36
<211> 475
<212> DNA
<213> Homo sapiens

<400> 36
ctgttttttg acttaattaa ccattgcaag tggaaaccaa gaaataattg tagcataact 60
ctctctattg kcatgttgct tctttctgca aatatatctt agaagttaga ctttaaaccct 120
ttgatctccc acaccaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag cagggtgttta aaaattttag aatttcttta acaaaattct 240
aaagagaaaa taaaaaagaa atcacagtat ttacagagat aacagaatgg cttagccatg 300
caaaacaaat aacttttggt tttccctttt tacttttggt taaatgttga ccaagattca 360


```

atTTTTTTTTt ctgccaaata aaacttcaat aaaagtttag aggcaaaata acgtatTTTTt 420
TTTTTTTTccc ataatatTTTt atacagcatc gagtctaaga atatTTTTatg cattt 475

```

```

<210> 37
<211> 246
<212> DNA
<213> Homo sapiens

```

```

<400> 37
ccttgagcTt gggccggggca ctgaggcgcc ccacatatgc tgagagcagg gggaacgcat 60
ccaggcagcc aggggctagg acctcatgga tcagcagcaa gtccagcagg ttgtagtcag 120
cgaaggagat ctggtctccc acaatgaagg tcttgccctc ctggttctgg gacagcaggg 180
tctcaaaagg cttcagttgc cggggcagtg ccttcacata gtcatccttg cccacctcat 240
agttgg 246

```

```

<210> 38
<211> 512
<212> DNA
<213> Homo sapiens

```

```

<400> 38
gctggaagtg aaatgcagat cagacccatt gtgatgtcac agaaagatgg ggacaggcca 60
aagaaaaaag tgactttcaa ctcttcttcc atcattttta tcatcaccag tgatgaatca 120
ctgtcagttg acgacagcga caaaaccaat gggtcctaaag ttgatgtaat ccaagttcgt 180
cctttgtagg aatgaagaat ggcaacgaaa gatggggcct taaattggat gccacttttg 240
gactttcatc ataagaagtg tctggaatac ccgttctatg taatatcaac agaaccttgt 300
gggccagcag gaaatccgaa ttgcccatac gctcttgggc ctcaggaaga ggttgaacaa 360
aaacaaattc ttttaattca acgggtgctt tacataatga aaaaaccact tgtggcacac 420
gatgggcac ctaacatcatc atcttctaag gtgttgagga ttttcatttc aaatatattt 480
tttaaattac tctatTTTtcc aaaacacgta at 512

```

```

<210> 39
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<400> 39
ttttatgaac aagatataag gatcaaaaaa aagggtgttg atatgttttt ccaagcagag 60
atgtactcga ctctgtccta tttagocctc ccatacctga cttctaataca cttttcctgg 120
tgccctycca tctccctaac cccccctcac agggatgect cctcccaagg ctccagaaac 180
tctgaccctc gcaactgctgg agggagccca tgaattgctg gtcaatatcg ctcacacctc 240
akactccatc ctgcgtgtgc ttcttcttac aagagctaga gaggcactga ctgataaata 300
cctgtcacct gcccctttcc cagagggtga aactccacc actcccactg cagaaatgaa 360
tcttaaatgg 370

```

```

<210> 40
<211> 204
<212> DNA
<213> Homo sapiens

```

```

<400> 40
cctgagggtt ttccctttaa attttcattg agttgtccat ctccagcata tagggcttca 60
ggagcagagc agacctgtt tttagtgggt ccatgggata aaatgggatt ggaggagcta 120
gaagaattca gggctctggc caatctgcc aatcttctga aatatcgaaa atacaccagg 180

```


gctgctatat cagagccacc ctgg

204

<210> 41

<211> 447

<212> DNA

<213> Homo sapiens

<400> 41

```
caggcagcaa ttcgtaaaga attaaatgag tacaaaagta atgaaatgga ggtacatgca 60
tcaagcaagc acttgacaag attccacagg ccatagagat tttcttctga gaagaatttg 120
tgtttaattt tttgatacca aactgaaca ttcacaggg aactttcctg aagttcagct 180
caagactacc ctacctgctg tgtttgtgag aagagtagga tcacacacac aggtgcaatc 240
ttgaccacac ttacctgcaa gaggagtaac cagaggacac acttccttcc ttctttggtg 300
tctgaggagt gtgaactgtt ggggtcagtt aagacccaac ataactctat cagaagaaaa 360
ctgttgtttg cctttcaacc ttgttttaca gttctgcagt gtagtggagg acgggcaacg 420
tgcattgtgca ggctcaccac tcccagg                                447
```

<210> 42

<211> 498

<212> DNA

<213> Homo sapiens

<400> 42

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ctgggtttgt aaaaacagtc tctttattct actgtgctga aaccctcacc aatatagaaa 60
attagattct cattgcactg aactatattt atatgcctaa gtatgtagaa gtaaaattat 120
ataccccaag aggattttat cttgttgtat atattaaatg ttatttctgc atatagggtc 180
ttttatggag aaactgatga tgataagctt aatactcact tgtttagcag catctgaatg 240
cacaaatgct ttatatatct cttctgcttt acaggggcaa agatcagact ctgttttctt 300
attgtcttca caagccagcc agaactcaat attctcctca ctgaattcag actttaggaa 360
acttccaaag acattttgac cagtttggtt ggcaagaagt ttttccagag attgagacca 420
ttgcattact tcagcagcag aaagtacatc cttggacttg gaagatttca ttccagattc 480
cagatgtggg atcataga                                498
```

<210> 43

<211> 312

<212> DNA

<213> Homo sapiens

<400> 43

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caggaaggcg gccagaatg tgagtgcaaa gattggttcc tgagagcccc gagaagaaaa 60
ttcatgacag tgtctgggct gccaaagaag cagtgccctt gtgatcattt caagggaat 120
gtgaagaaaa caagacacca aaggcaccac agaaagccaa acaagcattc cagagcctgc 180
cagcaatttc tcaaacaatg tcagetaaga agctttgctc tgcctttgta ggagctctga 240
gcgcccactc ttccaattaa acattctcag ccaagaagac agtgagcaca cctaccagac 300
actcttcttc tc                                312
```

<210> 44

<211> 417

<212> DNA

<213> Homo sapiens

<400> 44

```
ctaacacatt tactctccac tattcgtact ctggtagcca tgttaacccc atcagagatt 60
ccttctcaag ccatgtctca gagctgagag gcatcccagc aagttttgca gctcacagtt 120
```



```

ttttccgtaa attactttatt ctataaaatt ggagtaggcc ataaactttg gagggcccta 180
gaccaatttt ttggattatt tttcgtcttc tatcattccg ctgatcttag atattctctg 240
cattaaatat taaatatcac ttctaggctg aaaaatcccc ctaaaaatat ttctagctca 300
gatttttccct ccaaattctg caatagaaga tcacaatgtg aactctgcat ctccatgtta 360
aagtctaattg gacattcaca cttagcatgt ctcaaagaaa tctcatgtaa accatgg 417

```

```

<210> 45
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<400> 45
cgcggtgtctg tgggtatgtgt acacgtgcat gttctgcatg tctgtaggtc acacatgctt 60
tgggtgcatgt acacgtgtgt gtgtgtatgc gtgtaggagc tcacacttgt gtacacgttt 120
gtgtgcatgc atgtgtgcag gagcttgac gtttgtggtg ggtacatgta catatgtgag 180
tgatcctgtg tgcaagcccc catgtggaca tggctatgag tgagcgtgga gccaaaagcc 240
aggtaacacg catgcagcag gccactgtg cgtgtctgag acggtctgtg gcagggactg 300
ggtgtgaatc atgcagcagg cccactgtgc gtgtctgaga cgggtctgtg cagggactgg 360
gtgtgaatca gtgaccgtgt ctctgaccaa catgctgaat taaaaattga taatttatta 420
acctgtgcag caacaaataa gatttttcaa aactcaacaa agtgctcaaa gttgacatta 480
cttgcttcaa agtt 494

```

```

<210> 46
<211> 516
<212> DNA
<213> Homo sapiens

```

```

<400> 46
ccagtccaac ctgctcctca ttattgtata aatgagcaga atctatatgg cggaacccag 60
cttctatttg taattttgtg acctccaaag ctttacttct cggaacctcc tcctttggcc 120
gtcatttgat cattcaactc tttgtcagtg gcaactcccg ctatttttgt gtgttggttt 180
gttactacac agtgagcaca aacatggtgg tccaatacag aggctcttcc tgtcaggtgt 240
caaccagaaa gttcatctaa cactgtgata tttgcatcct tcttgaacag ttgttggtctg 300
aagattcatt tgatgaatcg atttttcaaa agagatgatt cttggttctt ccgagcgtc 360
agctctcccg ccgagcttct ttgagacgtc ctcaggtgtc ctttgacgat gcgtcctcca 420
ctttcacaca ctctagcatt ccttacttgg ggtcttcatt gcccacatt gggcagccag 480
gaatggtggg gtgatcagac acaacaccag gtcatg 516

```

```

<210> 47
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 47
ccaattcaga gtggcattct gcatttctgt ggcttccaag tcttagaacc tcaactgaca 60
tatagcattg ggcacactcc agcagacgcc cgaattcaaa tcctggaagg atggaagaaa 120
cgcttgagaa atattttggga tgagacacca ctgtattttg ctccaagcag cctctttgac 180
ctaaacttcc aggcaggatt cttaatgaaa aaagaggtac aggatgagga gaaaaacaag 240
aaatttggcc tttctgtggg ccatcacttg ggcaagtcca tcccaactga caaccagatc 300
aaagctagaa aatgagattc cttagcctgg atttcttctt aacatgttat caaatctggg 360
tatctttcca ggcttccctg acttgcttta gtttttaaga tttgtgtttt tctttttcca 420
caaggaataa atgagaggga atcgaksaaa aaaaaaaaaa 459

```

```

<210> 48

```


<211> 430
 <212> DNA
 <213> Homo sapiens

<400> 48
 cctatatattca gccacagcct ctgggagtg tgctgataat cggagcttgg aattacccct 60
 tcgtttctcac cattcagcca ctgataggag ccacgcgtgc aggaaatgct gtgattataa 120
 agcctttctga actgagtga aatacagcca agatcttggc aaagcttctc cctcagtatt 180
 tagaccagga tctctatatt gttattaatg gtggtgttga ggaaaccacg gagctcctga 240
 agcagcgatt tgaccacatt ttctatacgg gaaacactgc ggttggcaaa attgtcatgg 300
 aagctgctgc caagcatctg acccctgtga ctcttgaact gggagggaaa agtccatgtt 360
 atattgataa agattgtgac ctggacattg tttgcagacg cataacctgg ggaaaataca 420
 tgaattgtgg 430

<210> 49
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 49
 ccattccgaag caagattkca gatggcagtg tgaagagaga agacatattc tacacttcaa 60
 agctttggwg caattcccat cgaccagagt tgggtccgacc agccttggaa aggtcactga 120
 aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagc 180
 caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240
 tctgtgccac gtgggaggcc rtggagaagt gtaaagatgc aggattgg 288

<210> 50
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 50
 ccagagaatg acattcatgt ccccgtagat ccttgcaga gagtacatgg agccactgcc 60
 accagtgggtg atggaaagca ctgtcttctt actccggaag ggtcctttgt catacatggc 120
 agcgtaagtg taagcaaaact ctctatgaa cactcgctca aaccagcctt tcagaatggc 180
 agggactcca aaccactgca gggggaactg gaatatcaca aggtctgcgg cttccagctt 240
 cttttgttca gccacaatat ctgggctcag atggccttct ttataagcca gaacagactc 300
 ggcaggatac tgaaagtctg cagggtcctt cagtttacct gtgatgtcct ttctggaaat 360
 gatgggattg aagttcatgg catagaggto cgactccacc acctcccatc c 411

<210> 51
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 51
 gatatcttat gattaaaaac aaattaaatt ttaaaacacc tgaagatata ttagaagaaa 60
 ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta 120
 tcagttgtaa ataatgaatt aggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180
 tagttagtaa tttctagttt gaactgtaat tgaatatgtt ggcttcatat gtattatttt 240
 atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtttt 300
 taatatccca gaagtgtgac aatttgaaca gtgtattcta gaaaacaata cactaactga 360
 acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420
 actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480

ggtaaact gatgcaatta aga

503

<210> 52

<211> 503

<212> DNA

<213> Homo sapiens

<400> 52

```

gatatcttat gattaataaac aaattaaatt ttaaaacacc tgaagatata ttagaagaaa 60
ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta 120
tcagttgtaa ataatagaatt agggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180
tagtttagtaa tttctagttt gaactgtaat tgaatatattt ggcttcatat gtattatttt 240
atattgtact ttttccatta ttgatggttt ggactttaat aagagaaatt ccatagtttt 300
taatatccca gaagtgcagc aatttgaaca gtgtattcta gaaaacaata cactaactga 360
acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420
actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480
ggtaaact gatgcaatta aga 503

```

<210> 53

<211> 531

<212> DNA

<213> Homo sapiens

<400> 53

```

tttttttttt tttttaaaat gaggatattt tattatttca ggtaattttc ccagaggkga 60
gaatagtaca tgggaaattc tctttaggcc aggtctagta ttacagkgtg gkgctcaagg 120
ccgcccatac gaacagtgat actctcccaa cagatttcat ccaccccgtc tccactaact 180
tttgccataa aaattcctct gaattgtatc ttcttggaag aagtaaatac ctgttcgact 240
atacaaagaa acagagaaac cactccattc gcaatcaatc ttcaagagag ggagcaggca 300
agccgtgttc tttctgctga gttttataga ctctgacaag ctgtgaaata aacataaaca 360
gaagacaaaa cagtgcacac aataagcagt agatgaccct gtgacaagac ggcattgcag 420
aacaaagact gacgttttaa ggggagtcac gcagagtaac atgggaacac aagcctgaca 480
acctggtcag cttccactta ctctagctcc tttgaactct caacactaaa a 531

```

<210> 54

<211> 450

<212> DNA

<213> Homo sapiens

<400> 54

```

ccatgggtgt ctggagcwcc ctgaaaactgt atcaaagttg tacatatttc caaacatttt 60
taaaatgaaa aggcactctc gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120
aggcatttaa agatgtttct ggcattttct ttttatttgt aagggtgtgg taactatggg 180
tattggctag aaatcctgag ttttcaactg tataatctta tagtttgtaa aaagaacaaa 240
acaaccgaga caaaccttgc atgctccttg ctggcggttg aggctgtggg gaagatgcct 300
tttgggagag gctgtagctc agggcggtga ctgtgaggct ggacctgttg actctgcagg 360
gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
ccatcttagc tgtggacaaa ggggggtcag 450

```

<210> 55

<211> 648

<212> DNA

<213> Homo sapiens

<400> 55

```

caacttcaac cacaggctgc tggasatgat cctcarcaag ccagggctca agtacaagcc 60
tgtctgcaac caggtggaat gtcaccccta cttcaaccag agaaaactgc tggatttctg 120
caagtcaaaa gacattgttc tggttgccta tagtgctctg ggatcccacc gagaagaacc 180
atgggtggac ccgaactccc cgggtgctct ggaggacca gtcctttgtg ccttggcaaa 240
aaagcacaag cgaaccccag ccctgattgc cctgcgctac cagctrcagc gtgggggtgt 300
ggtcctggcc aagagctaca atgagcagcg catcagacag aacgtgcagg tgtttgaatt 360
ccagttgact tcagaggaga tgaaagccat agatggccta aacagaaatg tgcgatattt 420
gacccttgat atttttgctg gccccctaa ttatccattt tctgatgaat attaacatgg 480
agggcattgc atgaggtctg ccagaaggcc ctgctgtgtg atggtgacac agaggatggc 540
tctatgctgg tgactggaca catgcctctt ggttaaactt ctcctgcttg gygayttcag 600
caagctacag caaagcccat tggccggaaa aaatatcaag ggtcaaatt 648

```

<210> 56

<211> 536

<212> DNA

<213> Homo sapiens

<400> 56

```

ctggcatgag aatatttttt tttttaagtg cggtagtttt taaactgttt gtttttaaac 60
aaactataga actcttcatt gtcagcaaag caaagagtca ctgcatcaat gaaagttcaa 120
gaacctcctg tacttaaaca cgattcgcaa cgttctgtta ttttttttgt atgttttagaa 180
tgctgaaatg tttttgaagt taaataaaca gtattacatt tttaaaactc ttctctatta 240
taacagtcaa tttctgactc acagcagtga acaaaccctc actccattgt atttggagac 300
tggectccct ataaatgtgg tagcttcttt tattactcag tggacctgcc cgggcggccg 360
ctcgaagccg aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaa 420
gcttgccgtt aatcatggtc atagctgttt cctgtgtgaa attgttatcc gtcacaatt 480
ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagt 536

```

<210> 57

<211> 391

<212> DNA

<213> Homo sapiens

<400> 57

```

aggaactact gtcccagagc tgaggcaagg ggattttctca ggtcatttgg agaacaagtg 60
cttttagtagt agtttaaaagt agtaactgct actgtattta gtgggggtgga attcagaaga 120
aatttgaaga ccagatcatg ggtggtctgc atgtgaatga acaggaatga gccggacagc 180
ctggctgtca ttgttttctt cctccccatt tggacccttc tctgccctta catttttgtt 240
tctccatcta ccaccatcca ccagtctatt tatttgtcta gttggatttc atttcttctg 300
gaaaatttat tgtttatttg catgtgaccc ttgactgatg gcttcattag cattytgttt 360
ttcttttttg atccttaata gaaaactcaa t 391

```

<210> 58

<211> 455

<212> DNA

<213> Homo sapiens

<400> 58

```

gaagacatgc ttacttcccc ttcaccttcc ttcattgatgt gggaagagtg ctgcaaccca 60
gccctagcca acgccgcatg agagggagtg tgccgagggc ttctgagaag gtttctctca 120
catctagaaa gaagcgctta agatgtggca gcccctcttc ttcaagtggc tcttgtcctg 180
ttgccctggg agttctcaaa ttgctgcagc agcctccacc cagcctgagg atgacatcaa 240
tacacagagg aagaagagtc agggaaagat gagagaagtt acagactctc ctgggcgacc 300

```



```

ccgagagctt accattcctc agacttcttc acatggtgct aacagatttg ttcctaaaag 360
taaagctcta gaggccgtca aattggcaat agaagccggg ttccaccata ttgattctgc 420
acatgtttac aataatgagg agcaggttgg actgg 455

```

```

<210> 59
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 266
<223> n = A,T,C or G

```

```

<400> 59
ctcagaggca gcggtgcgggt gtgctctttg tgaaattcca ccatggcgta ccgtggccag 60
ggtcagaaag tgcagaaggt tatggtgcag cccatcaacc tcattctcag atacttacia 120
aatagatcgc ggattcaggt gtggctctat gagcaagtga atatgcggat agaaggctgt 180
atcattgggt ttgatgagta tatgaacctt gtattagatg atgcagaaga gattcattct 240
aaaacaaagt caagaaaaca actngntcgg atcatgctaa aaggagataa tattactctg 300
ctacaaagtg tctccaacta gaaatgatca atgaagtgag aaattgttga gaaggatata 360
gtttgttttt agatgtcctt tgtccaatgt gaacattt 398

```

```

<210> 60
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 60
gacttctgag acctggggca cccgggcctt tgccggcagct actggcaggg cctggccacc 60
tcataggact cagttccctt ctgaacactc gggggacatg ggccctctaac tgccactct 120
gatatgcctg ggtgagccta ggagggaagg ctctgatttg gatttctcca gtcaaagctc 180
acagaaaaaa acctggcact ttgattttca tgggatgggt ctaacagggt cagtcacctc 240
cgagcagttt ggggaaccag tttcttgtcc tgggacctca ggtcagcctg gctgaattag 300
gaccttctt tggcacaggg gtgagaaaga gcttggggaa cgcttggcat tatggagggc 360
tggaaggggc tcaaccccgga tttggagaga agtttgggat ggagtgggcg agagattgag 420
agagcgagca ggaaaagagg tcttggagcc tgggactgat ggtggataag gcctggaaaag 480
aasatgacsa ggaggaggag agagggaagt ggggtgatga ggagcaggct ga 532

```

```

<210> 61
<211> 466
<212> DNA
<213> Homo sapiens

```

```

<400> 61
gcgacggcga cgtctctttt gactaaaaga cagtgtccag tgctccagcc taggagtcta 60
cggggaccgc ctcccgcgcc gccaccatgc ccaacttctc tggcaactgg aaaatcatcc 120
gatcggaaaa ctccgaggaa ttgotcaaaag tgctgggggt gaatgtgatg ctgaggaaga 180
ttgtgtggc tgcagcgctc aagccagcag tggagatcaa acaggaggga gacactttct 240
acatcaaaac ctccaccacc gtgcgcacca cagagattaa cttcaagggt ggggaggagt 300
ttgaggagca gactgtggat gggaggccct gtaagagcct ggtgaaatgg gagagtgaga 360
ataaaatggt ctgtgagcag aagctcctga agggagaggg cccaagacc tcgtggacca 420
gagaactgac caacgatggg gaactgatcc tgaccatgac ggcgga 466

```


<210> 62
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 62
 ttttgaattt acaccaagaa cttctcaata aaagaaaatc atgaatgctc cacaatttca 60
 acataccaca agagaagtta atttcttaac attgtgttct atgattattt gtaagacctt 120
 caccaagtgc tgatatcttt taaagacata gttcaaaatt gcttttgaaa atctgtattc 180
 ttgaaaatat ccttggttggtg tattagggtt ttaaatacca gctaaaggat tacctcactg 240
 agtcacagc accctcctat tcagctcccc aagatgatgt gtttttgctt accctaagag 300
 aggttttctt cttattttta gataattcaa gtgcttagat aaattatgtt ttctttaagt 360
 gtttatggta aactctttta aagaaaattt aatatgttat agctgaatct ttttggtaac 420
 tttaaatctt tatcatagac tctgtacata tgttcaaat agctgcttgc ctgatgtgtg 480
 tatcatcggt gggatgacag aacaaacata tttatgatca tgaataatgt gctttgtaaa 540
 aagatttc 548

<210> 63
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 63
 ttcccaaagc ggagacttcc gacttcctta caggatgagg ctgggcattg cctgggacag 60
 cctatgtaag gccatgtgcc ccttgcccta acaactcact gcagtgtctt tcatagacac 120
 atcttgacgc atttttctta aggcctatgt tcagtttttc tttgtaagcc atcacaagcc 180
 atagtggtag gtttgccctt tggtagacagaa ggtgagttaa agctgggtgga aaaggcttat 240
 tgcattgcat tcagagtaac ctgtgtgcat actctagaag agtagggaaa ataattgcttg 300
 ttacaattcg acctaatatg tgcattgttaa aataaatgcc atatttcaaa caaaacacgt 360
 aattttttta cagtattgtt tattaccttt tgatatctgt tgttgcaatg ttagtgatgt 420
 tttaaaatgt gatcgaaaat ataattgctt taagaaggaa cagtagtgga atgaatgtct 480
 aaaagatctt tatgtgttta tggctctgcag aaggattttt gtgatgaaag gggatttttt 540
 gaaaaat 547

<210> 64
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 374, 443, 444, 452, 476, 489, 515, 523
 <223> n = A,T,C or G

<400> 64
 cacctmctcc cscwgggcgc ttwctcsgac gccttgccca scgggcccgc cgacccccctg 60
 srccatggac ccgcctcgcc cscgtggggt gtygatkctg ctgcttttcc tgrckgaggc 120
 tgcactgggc gatgctgac argagccaac aggaataaac rcggagatct gkctcctgcc 180
 cctagactac kgacctgcc kggccctact tytcogytac tactacgaca ggyacacgca 240
 gagctgccgc cwgttcctgk rckggggctg crasggcaac rccaacwatt yctacacckg 300
 kgaggmttrc gackatgctw gstggargat agaaaaagtt cccaaasttt gccggctgma 360
 agtgaatgag gacnaccagg gtgaggggta cacagataag tatttcttta atctaakkw 420
 catgacatgw gaaaaattct ttnncgggtg gngtcaccgg accggattga gaacangttt 480
 gcagatgang ctactgggat gggctcctgc rcacnaaaga aantatca 528

<210> 65
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 408
 <223> n = A,T,C or G

<400> 65
 kgaatgaasa acgaacgctg gaagtagaaa tagagcctgg ggtgagagac ggcatggagt 60
 acccctttat tggagaagggt gagcctcacg tggatgggga gcctggagat ttacggttcc 120
 gaatcaaagt tgtcaagcac ccaatatttg aaaggagagg agatgatttg tacacaaatg 180
 tgacagtctc attagttgag tctactggttg gctttgagat ggatattact cacttggatg 240
 gtcacaagggt acatatattcc cgggataaga tcaccaggcc aggagcgaag ctatggaaga 300
 aaggggaagg gctccccaac ttgacaaca acaatatcaa gggctctttg ataactactt 360
 ttgatgtgga ttttccaaaa gaacagttaa cagaggaagc gagagaangt atcaaacagc 420
 tactgaaaca agggtcagtg cagaagggtat acaatggact gcaaggatat tgagagtga 480
 taaaattgga ctttggttta aataaagtga ataagcgata tttattatct gcaagggttt 540
 ttttgtg 547

<210> 66
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 66
 ggggagggtct acgctttctag agcttgagcc agcggggcgga ccctgcagtg gcaggactcg 60
 gcaccgcgcc ctccaccgcc ggttggtggc ctgcgtgaca gtttcctccc gtcgacatcg 120
 aaagggaagcc ggacgtgggc gggcagagag cttcatcgca gtaggaatgg cagccccatc 180
 tatgaaggaa agacagggtct gctggggggc cggggatgag tactggaagt gtttagatga 240
 gaacttagag gatgcttctc aatgcaagaa gttaagaagc tctttcgaat caagttgtcc 300
 ccaacagtggt ataaaatatt ttgataaaag aagagactac ttaaaattca aagaaaaatt 360
 tgaagcagga caatttgagc cttcagaaac aactgcaaaa tcctaggctg ttcataaaga 420
 ttgaaagtat tctttctgga cattgaaaaa gctccactga ctatggaaca gtaatagttt 480
 gaatcatagt gaacatcaat acttggttccc tatatacgac acttgataat taaga 535

<210> 67
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 67
 atttctgccca cttaattcaa acagtcatat gcaggtcgct taattttattt gtgcttttgt 60
 ttcatcttct acaaggccct cttagctcta aaacttgaca gtggaataag gaaatgtttt 120
 tccaaatctg cattgccggt gagatcctca acatcagcat gttgagatgg acctcaaccc 180
 cacctotaac cctgaaacac actactcgat attatcttag gtatgtttta gggtttagtt 240
 tgtaaaaataa taattttatt ttgaaggaaa tataaaatat taaagagtaa taatagctat 300
 catttttttaa gattcaatct aaaacaatgg actctttttt tttccatttg tgatgtagat 360
 aagcaagaca attttgatca tgagtgggtga aaagaggatc aaacttgact attcttgcaa 420
 tggcagtcca gcaacaagcc tttcatttac attaaattat aacttttcat tcattcctaa 480
 accaaactta aaattctgct ttcctttgag tagaagggtat ttaactt 527

<210> 68
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 68
 gggaaacttc atggggtttcc tcatctgtca tgtcgatgat tatatatgga tacattttaca 60
 aaaataaaaa gcggaattt tcccttcgct tgaatattat ccctgtatat tgcataaatg 120
 agagattttcc catattttcca tcagagtaat aaatatactt gctttaattc ttaagcataa 180
 gtaaacatga tataaaaaata tatgctgaat tacttgtgaa gaatgcattt aaagctattt 240
 taaatgtgtt tttattttgta agacattact tattaagaaa ttggttatta tgcttactgt 300
 tctaactctgg tggtaaagggt attcttaaga atttgcagggt actacagatt ttcaaaactg 360
 aatgagagaa aattgtataa ccatcctgct gwtcctttag tgcaatacaa taaaactctg 420
 aaattaaaac t 431

<210> 69
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 69
 gacacggcgg acacacacaa acacagaacc acacagccag tcccaggagc ccagtaaatgg 60
 agagccccc aaagaagaac cagcagctga aagtcgggat cctacacctg ggcagcagac 120
 agaagaagat caggatacag ctgagatccc agtgcgcgac atggaagggt atctgcaaga 180
 gctgcatcag tcaaacaccg gggataaatc tggatttggg ttccggcgtc aagggtgaaga 240
 taatacctaa agaggaacac tgtaaaatgc cagaagcagg tgaagagcaa ccacaagttt 300
 aaatgaagac aagctgaaac aacgcaagct ggttttatat tagatatttg acttaaaacta 360
 tctcaataaa gttttgcagc tttcaccaar aaaaaaaaaa 399

<210> 70
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 70
 cgcggcggag ctgtgagccg ggcactcggg tccctgaggt ctggattctt tctccgctac 60
 tgagacacgg cggacacaca caaacacaga accacacagc cagtcccagg agcccagtaa 120
 tggagagccc caaaaagaag aaccagcagc tgaaagtcgg gatcctacac ctgggcagca 180
 gacagaagaa gatcaggata cagctgagat cccagggtgct gggaagggaa atgcgcgaca 240
 tggaaaggta tctgcaagag ctgcatcagt caaacaccgg ggataaatct ggatttgggt 300
 tccggcgctca aggtgaagat aatacctaaa gaggaacact gtaaaatgcc agaagcaggt 360
 gaagagcaac cacaagttta aatgaagaca agctgaaaca acgcaagctg gttttatatt 420
 aggatatttg acttaaaacta tctcaataaa gttttgcagc tttcaccaaa aaaaaaaaaa 479

<210> 71
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 71
 ctcagcgggt gccaacagat catgagccat cagctcctct ggggccagct ataggacaac 60
 agaactctca ccaaaggacc agacacagtg rgccaccatgg gacagtgtcg gtcagccaac 120
 gcagaggatg ctcaggaatt cagtgatgtg gagagggcca ttgagaccct catcaagaac 180


```

tttcaccagt actccgtgga ggggtgggaag gagacgctga ccccttctga gctacgggac 240
ctgggtcacc agcagctgcc ccactctcatg ccgagcaact gtggcctgga agagaaaatt 300
gccaacctgg gcagctgcaa tgactctaaa ctggagttca ggagtttctg ggagctgatt 360
ggagaagcgg ccaagagtgt gaagctggag aggcctgtcc gggggcactg agaactccct 420
ctggaattct tggggggg                                     437

```

```

<210> 72
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<400> 72
ggatggtata ctgtaaattc agcatatgga gataccatta tcataccttg ccgacttgac 60
gtacctcaga atctcatgtt tggcaaatgg aaatatgaaa agcccgatgg ctccccagta 120
tttattgcct tcagatcctc tacaaagaaa agtgtgcagt acgacgatgt accagaatac 180
aaagacagat tgaacctctc agaaaactac actttgtcta tcagtaatgc aaggatcagt 240
gatgaaaaga gatttgtgtg catgctagta actgaggaca acgtgtttga ggcacctaca 300
atagtcaagg tgttcaagca accatctaaa cctgaaattg taagcaaagc actgtttctc 360
gaaacagagc agctaaaaaa gttgggtgac tgcatttcag aagacagtta tccagatggc 420
aatatcacat ggtacaggaa tggaaaagtg ctacatcccc ttgaaggagc ggtggtcata 480
atttttaaaa aggaaatgga cccagtgact cagctctata ccatgacttc caccctggag 540
tacaagacaa ccaaggctga c                                     561

```

```

<210> 73
<211> 916
<212> DNA
<213> Homo sapiens

```

```

<400> 73
ggagaaaaata aggtggagtc ctacttgttt aaaaaaatatg tatctaagaa tgttctaggg 60
cactctggga acctataaag gcagggtattt cgggcctctc tcttcaggaa tcttcctgaa 120
gacatggccc agtcgaaggc ccaggatggc ttttgctgcg gccccgtggg gtaggaggga 180
cagagagaca gggagagtca gctccacat tcagaggcat cacaagtaat ggcacaattc 240
ttcggatgac tgcagaaaaat agtgttttgt agttcaacaa ctcaagacga agcttatttc 300
tgaggataag ctcttttaaag gcaaagcttt attttcatct ctcatctttt gtcctcctta 360
gcacaatgta aaaaagaata gtaatatcag aacaggaagg aggaatggct tgctggggag 420
cccatccagg aactggggag cacatagaga ttcacccatg tttgttgaac ttagagtcac 480
tctcatgctt ttctttataa ttcacacata tatgcagaga agatatgttc ttgttaacat 540
tgtatacaac atagccocaa atatatgtaag atctatacta gataatccta gatgaaatgt 600
tagagatgct atatgatata actgtggcca tgactgagga aaggagctca cgcccagaga 660
ctgggctgct ctcccggagg ccaaacccaa gaaggtcttg caaagtcagg ctccaggaga 720
ctctgccctg ctgcagacct cgggtgtggac acacgctgca tagagctctc cttgaaaaca 780
gaggggtctc aagacattct gctacctat tagcttttct ttattttttt aacttttttg 840
ggggaagagt atttttgaga agtttgtctt gcaatgtatt tataaatagt aaataaagt 900
tttaccatta aaaaaa                                     916

```

```

<210> 74
<211> 547
<212> DNA
<213> Homo sapiens

```

```

<400> 74
agtggcatta acttttagaa tttgggctgg tgagattaat tttttttaat atcccagcta 60
gagatatggc ctttaactga cctaaagagg tgtgttgtga ttttaatttt tcccgttcct 120

```



```

ttttcttcag taaacccaac aatagtctaa ccttaaaaaat tgagttgatg tccttatag 180
tcactacccc taaataaacc tgaagcaggt gttttctctt ggacatacta aaaaatacct 240
aaaaggaagc ttagatgggc tgtgacacaa aaaattcaat tactgtcatc taatgccagc 300
tgttaaaagt gtggccactg agcatttgat tttataggaa aaaatagtat ttttgagaat 360
aacatagctg tgctattgca catctgttgg aggacatccc agatttgctt atactcagtg 420
cctgtgatat tgagtttaag gatttgaggc aggggtaatt attaaacata ttgcttctat 480
tcttggaaaa atagaagkgt aaaatgtaa taatacaaat gtcactgtga cctcctccac 540
tgagagg                                           547

```

```

<210> 75
<211> 793
<212> DNA
<213> Homo sapiens

```

```

<400> 75
tgaggaagtt gcaagccaac aaaaaagttc aaggatctag aagacgatta agggaaggtc 60
gttctcagtg aaaatccaaa aaccagaaaa aaatgtttat acaaccctaa gtcaataacc 120
tgacctaga aaattgtgag agccaagttg acttcaggaa ctgaaacatc agcacaaaga 180
agcaatcatc aaataattct gaacacaaat ttaatatattt tttttctgaa tgagaaacat 240
gagggaatt gtggagttag cctcctgtgg agttagcctc ctgtggtaaa ggaattgaag 300
aaaatataac accttacacc ctttttcatc ttgacattaa aagttctggc taactttgga 360
atccattaga gaaaaatcct tgtcaccaga ttcattacaa ttcaaatcga agagttgtga 420
actgttatcc cattgaaaag accgagcctt gtatgtatgt tatggataca taaaatgcac 480
gcaagccatt atctctccat gggaagctaa gttataaaaa taggtgcttg gtgtacaaaa 540
ctttttatat caaaaggett tgcacatttc tatatgagtg ggtttactgg taaattatgt 600
tattttttac aactaatttt gtactctcag aatgtttgtc atatgcttct tgcaatgcat 660
attttttaat ctcaaacgtt tcaataaaac catttttcag atataaagag aattacttca 720
rattgagtaa ttcagaaaaa ctcaagattt aagttaaaaa gtggtttgga cttggaaca 780
ggactttata cct                                           793

```

```

<210> 76
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 76
accttgcaact attccctcctca gtccatctat cgagggtcttt gcaggaagca tactgggaat 60
tgaaacgaga gcctaaatga catctaagaa aggcagtgtt caataccagg tattagggtga 120
ggatgggatt ctaaggacat cagtgggagg caggagacca ccttcagacc tcagcatgga 180
agcttccaag atccagagga agaggcaaca gcaactgagag tcataggtag aagaatcatc 240
acagccctgc taaccaggca gctgatgccc ctctcccctg gctccctgtg tccaaatcct 300
acaggggcat ctggttgctg aactcaacct gaagccaaaag agaagatgag tggagagagg 360
caacatttat agagctcagg tttctagggc tggagaggga tctggaggga cacacaggag 420
acacctggca taacaaaaaa atgattaaaa aaaaaaaaaa a                                           461

```

```

<210> 77
<211> 642
<212> DNA
<213> Homo sapiens

```

```

<400> 77
ggttgacgca aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 60
gctgtgagac tacctattgt agatattgca ccctatgaca ttgggtggcc tgatcaagaa 120
tttgggtggtg acgttggccc tgtttgcttt ttataaacca aactctatct gaaatcccaa 180

```



```

caaaaaaaaaat ttaactccat atgtgttcct cttgtttctaa ttttgtcaac cagtgcgaagt 240
gaccgacaaa attccagtta tttatttcca aaatgtttgg aaacagtata atttgacaaa 300
gaaaaatgat acttctcttt ttttgctgtt ccaccaaata caattcaaat gctttttgtt 360
ttattttttt accaattcca atttcaaaat gtctcaatgg tgctataata aataaacttc 420
aacactcttt atgataacaa aaaaaarawa wattctttga atcctagccc atctgcagag 480
caatgactgt gctcaccagt aaaagataac ctttctttct gaaatagtca aatacgaaat 540
tagaaaagcc ctccctattt taactacctc aactggtcag aaacacagat tgtattctat 600
gagtcccaga agatgaaaaa aatttttatac gttgataaaa ct 642

```

<210> 78

<211> 519

<212> DNA

<213> Homo sapiens

<400> 78

```

gcagaagaag aagcggacct tccgcaagtt cacctaccgc ggcggtggacc tcgaccagct 60
gctggacatg tcctacgagc agctgatgca gctgtacagt gcgcgccagc ggcgggcggt 120
gaaccggggc ctgcgggcga agcagcactc cctgctgaag cgcttgcgca aggccaagaa 180
ggaggcgccg cccatggaga agccggaagt ggtgaagacg cacctgcggg acatgatcat 240
cctacccgag atggtgggca gcatggtggg cgtctacaac ggcaagacct tcaaccaggt 300
ggagatcaag cccgagatga tcggccacta cctgggcgag ttctccatca cctacaagcc 360
cgtaaagcat ggccggcccg gcatcggggc caccactcc tcccgcttca tccctctcaa 420
gtaatggctc agctaataaa aggcgcacat gactccaaaa aaaaaaaaaa aagggcgggc 480
gccaccgagg gggagctcca cttttgttcc ctttaatga 519

```

<210> 79

<211> 526

<212> DNA

<213> Homo sapiens

<400> 79

```

gtctggaggc ggtgtcctct ccgccctgtc gggctcctgga tgagtacgag ttatggtcac 60
ggtcacagcc tgatctctta tgtgttcata gccattcgct ctcccatcag aactgtttgt 120
cctgaatgtg ttctctagt tctagaaaat gaccactaat ttaaaaaact cggttgtgag 180
gtttgccagc aggcacttgt tccagaattt cccctcctgc ttcagccatg tccttgtcac 240
ttggcattct aagctaaagc tttagcttcc caattcgtga tgtgctaggc caagattcgg 300
gagctgttgc cagcctcgtc aaatatggaa gagaaacaac ctgcggtcaa aagggagtga 360
tttgttaagt ggtgcgcgtc tatctcataa ctagatgtac caaccaggga agggccaagg 420
atggaaaggg gtaacttttg tgcttccaaa gtagctaagc agaagtgggg gagcagttta 480
gccagatgat ctttgattag gcaaacattg agttttaaag aggctg 526

```

<210> 80

<211> 281

<212> DNA

<213> Homo sapiens

<400> 80

```

gttatattag tgggtagtgt aacattttat ccaggttggg gtgaggggag atggccacag 60
tagcaagtgg tgacactaaa taocattttg aaggctgatg tgtatataca tcattactgt 120
ccgtagcaat gaaggatata gtactgtgtt gtgggtgagt gttgctattg cccagcatta 180
atatttgggt gtgtatgttt gaggctatga aacacgcagg agtgtttttg tgctattaat 240
tttaagagaa agcagctttt tottaaaatt cactgttgag a 281

```

<210> 81

<211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 219, 230, 261, 306
 <223> n = A,T,C or G

<400> 81
 gtgggtggga ggcgctgctg ttgggagttg cttggaggtt ggcggcgcgg ggctgaaggc 60
 tagcaaaccg agcgatcatg tcgcacaaac aaatttacta ttcggacaaa tacgacsacg 120
 aggagtttga statcgacat gtcatgctgc ccaaggacat akccaasctg gtccctaaaa 180
 cccatctgat gtctgaatct gaatggagga atcttggcng ttcagmagan tcagggatgg 240
 gtccattata tgatccatga nccagaacct cdcattctgc tgttccggcg scccacttac 300
 cccaanaaac caamgaaatg aaccttggct actacttttc aatcctcaaa kcttttcaca 360
 vhtgaccttc cttcctaaca ttctttmtga taaacattta ttaag 405

<210> 82
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 82
 tagtttttta gaagaaatth tttttggcct atgaaattgt taaacctgga acatgacatt 60
 gttaatcata taataatgat tcttaaatgc tgtatggttt attattttaa tgggtaaagc 120
 catttacata atatagaaa atagcatat atctagaagg tatgtggcat ttatttggat 180
 aaaattctca attcagagaa atcatctgat gtttctatag tcactttgcc agctcaaaag 240
 aaaacaatac cctatgtagt tgtggaagtt tatgctaata ttgtgtaact gatattaaac 300
 ctaaatgttc tgcctaccct gttggtataa agatattttg agcagactgt aaacaagaaa 360
 aaaaaaatca tgcattctta gcaaaattgc ctagtatgtt aatttgctca aaatacaatg 420
 tttgatttta tgcactttgt cgctattaac atcctttttt tcatgtagat ttcaataatt 480
 gagtaatttt agaagcatta ttttaggaat atatagtkgt cacagtaaat atcttgtttt 540
 ttctatg 547

<210> 83
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 83
 ctatttctaag agatgctctt agtgcatttg cattacactt tctgaataaa atgaagatca 60
 tgggtgattaa ggatattgaa agagaagaca ttgaattcat ttgtaagaca attggaacca 120
 agccagttgc tcatattgac caatttactg ctgacatgct gggtttctgct gagtttagctg 180
 aggaggtcaa tttaaatggt tctggcaaac tgctcaagat tacaggctgt gccagccctg 240
 gaaaacacgt tacaattggt gttcgtgggt ctaacaaact ggtgattgaa gaagctgagc 300
 gctccattca tgatgcccta tgtgttattc gttgtttagt gaagaagagg gctcttattg 360
 caggaggtgg tgctccagaa atagagttgg ccctacgatt aactgaatat tcacgaacac 420
 tgagtggat ggaatcctac tgcgttcgtg cttttgcaga tgctatggag gtcattccat 480
 ctacactagc tgaaaatgcc cggcctgaat cccatttcta cagtaacag 529

<210> 84
 <211> 527
 <212> DNA

<213> Homo sapiens

<400> 84

```

cccacacacca gaatcccttc atgggagggga tggatgcctg ttgaaactca ctgacctatt 60
ggactgacgc tgggggtggta tcttcatcag agctattgta agtcatccaa aaggcttctg 120
acgaaagaac aattttttaa aagtcctct tttcaatcaa gccaatgtcc tattttattt 180
ctaaaagttt tgggactcgt gctgttatca agtacaatga aaatggcttt ataaatagct 240
gttttgacat tgtgatagaa ggcttgaata cggaggaaaag atgtcgctgg agctagtcct 300
gagttccgac tgtccctgtg gtgggaatcc agtctgggaa agcaggactg ttttagcaaa 360
cgtgtactcg ttctataaaa atggaatctg ttctgcaggt taccgtccct ccccgcccaa 420
gcatcccttc tgtcctgtct ctctgctgct gggaccaggg gctttttcag ctgcagaacc 480
cactggactt ccaggaatca aggaaaaagt ggaaatgtcc aactgtg 527

```

<210> 85

<211> 401

<212> DNA

<213> Homo sapiens

<400> 85

```

cagtgtggtg gaattcccaa gatagaaatg aaaaactctt ttatagagtg ctgacatctg 60
acattgagaa attcatgcct attgtttata ctcccactgt gggctctggct tgccaacaat 120
atagtttggt gtttcggaag ccaagaggtc tctttattac tatccacgat cgagggcata 180
ttgcttcagt tctcaatgca tggccagaag atgtcatcaa ggccattgtg gtgactgatg 240
gagagcgtat tcttggcttg ggagaccttg gctgtaatgg aatgggcctc cctgtgggta 300
aattggctct atatacagct tgccggagga tgaatcctca agaatgtctg cctgtcattc 360
tggatgtggg aaccgaaaaat gaggagttac ttaaagatcc a 401

```

<210> 86

<211> 547

<212> DNA

<213> Homo sapiens

<400> 86

```

gaagcctctt gtgtttgtgt gcagagaagt atatgatcca ccatgctaata gacacttgcc 60
tttttttcca ccattaaggc tttaagaaca tgtggaataa gtttttttagc tgctaatagac 120
aaaacaaatc ctgtaactac ccagccagca agtatatagc acagaacact gtgttacttt 180
acaagggtct atgtgactgg aataagggtg tcccacttga ctgttccaaa gagcagcttc 240
tcagatcttc agtggttact ggtaaatttc taacagtgtg tttgtgtaaa gtttgtcatt 300
tcatactcca tacactacag ttgctgtcac tgatccctgt tttgctggct ttaagctac 360
ttggtcacaaa atcctgcttc cttaaaacat agagaattaa tgagcatctc aagctttttc 420
ttttcctttt taatgatgcc tgcactatca agagtattct agtgttctct ctttgtttgg 480
catataatca tgcaccaaac tttttatttc tttaagggtg gagtatattt ttatttccta 540
aatgcca 547

```

<210> 87

<211> 530

<212> DNA

<213> Homo sapiens

<400> 87

```

atggattcga aataccagkg tgtgaagctg aatgatggtc acttcatgcc tgtcctggga 60
tttggcacct atgcgcctgc agaggttcct aaaagtaaag ctctagaggc cgtcaaattg 120
gcaatagaag ccgggttcca ccatattgat tctgcacatg tttacaataa tgaggagcag 180
gttggtactg ccacccgaag caagattgca gatggcagtg tgaagagaga agacatattc 240

```



```

tacacttcaa agctttggag caattcccat cgaccagagt tgggccgacc agccttggaa 300
aggctactga aaaatcttca attggactat gttgacctct atcttattca ttttccagt 360
tctgtaaagc caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac 420
acagtggatc tctgtgccac rtgggaggcc atggagaagt gtaaagatgc aggattggcc 480
aagtccatcg ggggtgtccaa cttcaaccac aggctgctgg agatgatcct 530

```

```

<210> 88
<211> 529
<212> DNA
<213> Homo sapiens

```

```

<400> 88
acctgagcta agaaggataa ttgtcttttg gtaactaggt ctacaggttt acatttttct 60
gtgttacact caaggataaa ggcaaaatca attttgtaat ttgttttagaa gccagagttt 120
atcttttcta taagtttaca gcctttttct tatatataca gttattgcca cctttgtgaa 180
catggcaagg gactttttta caatttttat tttattttct agtaccagcc taggaattcg 240
gttagtactc atttgtattc actgtcactt tttctcatgt tctaattata aatgaccaa 300
atcaagattg ctcaaaaggg taaatgatag ccacagtatt gctccctaaa atatgcataa 360
agtagaaatt cactgccttc cctcctgtc catgaccttg ggcacaggga agttctgggtg 420
tcatagatat cccgttttgt gaggtagagc tgtgcattaa acttgacat gactggaacg 480
aagtatgagt gcaactcaaa tgtgttgaag atactgcagt catttttgt 529

```

```

<210> 89
<211> 547
<212> DNA
<213> Homo sapiens

```

```

<400> 89
gtttatatat atagcgaata aatctagttg tataaat taaatgccgt cagtagaaaag 60
cacacaagggt tatgattttt ttaattactg gcttctgatt tctttcactt ctgatccttt 120
tcctttttct cagatgtagc tgagtcttga tcattttaag acaacgatgg gtagaatttt 180
gagattaatg ttaattttcc ctttttgta atttcagtc cctctcacta tgcttttgct 240
cagaaggatc aagaattcta ccatcccttg ggtctttgtg tataaacaat gttaaataaa 300
ggtagactca gtctttaaga tattagacag ttttttagt ccatgggatt gtaaatataa 360
acattaactt tcctataaga atattttggc tttgtaatct atagcctcaa attggtattt 420
attatggatt cactagacaa acagctgttt ccttattgtc ttttttctt agtgtttctg 480
atttgctatc agtagctgtt tttaaagcca tccaaggaaa ataattattt acagtttttg 540
aagtcac 547

```

```

<210> 90
<211> 528
<212> DNA
<213> Homo sapiens

```

```

<400> 90
gagcagcaga agctgtacag caagatgato gtggggaacc acaaggacag gagccgctcc 60
tgagcctgcc tccagctggc tggggccacc gtgcgggtg ccaacgggct cagagctgga 120
gttgccgcgc cgcctccac tgcgtgtgct tttccagact ccagggtcc cggggtgct 180
ctggatccca ggactccggc ttgcgcgag cgcagcggg atccctgtgc acccggcgca 240
gcctaccctt ggtggtctaa acggatgctg ctgggtgttg cgaccagga cgagatgcct 300
tgtttctttt acaataagtt gttggaggaa tgccattaaa gtgaactccc cacctttgca 360
cgctgtgcgg gctgagtggg tggggagatg tggccatggg cttgtgctag agatggcggt 420
acaagagtct gttatgcaag cccgtgtgcc agggatgtgc tgggggcggc caccgctct 480
ccaggaaagg cacagctgag gcactgtggc tggcttcggc ctcaacat 528

```


<210> 91
 <211> 547
 <212> DNA
 <213> Homo sapiens

```
<400> 91
atataccatt taatacattt acacttttctt atttaagaag atattgaatg caaaataatt 60
gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
ctgactctaa tcaaagtga tgattggaat taraccmttt ggscyttgra ccttymtwrg 240
raaaawgrmc cmaccttityt taacmtgrac cwccytmatc tctagaagct gggatggact 300
tactatyctk gttwatattt taaatackga aagggtgctat gcttctgtta ttattccaag 360
actggagata ggcagggcta aaaaggtatt attatttttc ctttaatgat ggtgctaaaa 420
ttcttcttat aaaattcctt aaaaataaag atggtttaat cactaccatt gtgaaaacat 480
aactgtttaga cttcccgttt ctgaaagaaa gagcatcggt ccaatgcttg ttcaactgttc 540
ctctgtc                                     547
```

<210> 92
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 393, 502
 <223> n = A,T,C or G

```
<400> 92
gctggctagt aggggaacat gtagtagcca agcccatgca ttgcagtgca cagagcaaca 60
ttggggtaac aggatgggta cctgtcacgg cctgtgcaaa cataacatgt gtcaccacac 120
tgaaggtatg gtggaacaag tggcctcacc aagggtcgac cccaatggac tttttgcctc 180
ttgggagctt atgggtctat gaggacacag tagcctttcc tatcagcaaa ctggagtggg 240
tggtgtatct ggggggtggc ttatgtacct gctactgttc tccccacatt gccagatgc 300
ctgtataact gggaggcact gkgctctcag tttttgcgaa tgtgatgagc cccctggtgt 360
ttctaccctt ttggcaatga ctatccctgg agncatgtgt caaaactgta aagcacaatt 420
tactgctctt tgcggagcac accgctcatg ctctgaatta cacctgaktg tccctcctcc 480
wgktawtgaa tgaggttgat cnvatcagaa adgtggkgtt ggcmata 527
```

<210> 93
 <211> 531
 <212> DNA
 <213> Homo sapiens

```
<400> 93
ggtattcata cagccttcct aaaggcaatg ctttccacag gatttaagat accccagaaa 60
ggcatcctga taggcatcca gcaatcattc cggccaagat tccttggtgt ggctgaacaa 120
ttacacaatg aagggtttcaa gctgtttgcc acggaagcca catcagactg gctcaacgcc 180
aacaatgtcc ctgccacccc agtggcatgg cegtctcaag aaggacagaa tcccagcctc 240
tcttccatca gaaaattgat tagagatggc agcattgacc tagtgattaa ctttcccaac 300
aacaacacta aatttgtcca tgataattat gtgattcgga ggacagctgt tgatagtggg 360
atccctctcc tactaattt tcaggtgacc aaactttttg ctgaagctgt gcagaaatct 420
cgcaaggtgg actccaagag tcttttccac tacaggcagt acagtgctgg aaaagcagca 480
tagagatgca gacaccccag cccattattt aaatcaacct gagccacatg t 531
```


<210> 94
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 547
 <223> n = A,T,C or G

<400> 94
 gttaaacaatg gtctgcgtgc cttaagagag acgcttcctg cagaacagga cctgactaca 60
 aagaatgttt ccattggaat tgttggtaaa gacttgaggt ttacaatcta tgatgatgat 120
 gatgtgtctc cattcctgga aggtcttgaa gaaagaccac agagaaaggc acagcctgct 180
 caacctgctg atgaacctgc agaaaaggct gatgaaccaa tggaacatta agtgataagc 240
 cagtctatat atgtattatc aaatatgtaa gaatacaggc accacatact gatgacaata 300
 atctatactt tgaacccaaa gttgcagagt ggtggaatgc tatgttttag gaatcagtcc 360
 agatgtgagt tttttccaag caacctcact gaaacctata taatggaata catttttctt 420
 tgaaagggtc tgtataatca ttttctagaa agtatgggta tctatactaa tgtttttata 480
 tgaagaacat aggtgtcttt gtggttttta agacaactgt gaaataaaat tgtttcaccg 540
 cctggtg 547

<210> 95
 <211> 1265
 <212> DNA
 <213> Homo sapiens

<400> 95
 gtgggtcaagc agtgattttt ctgggactgc agaagttcct gctgtgcccc acctttatta 60
 ctaactggga aagaccocagg gagactggga tgggctcatg attctacata cagaactcat 120
 ccaagaaaagg aggaaaagct gattttttgtg aacgtcgcta cttgtgectg aactaactct 180
 caggcacatt agtcagaaaa tactacctat gggtactccc ccaggttcct aaaagtaaaag 240
 ctttagaggc caccaaattg gcaattgaag ctggcttccg ccatattgat tctgctcatt 300
 tatacaataa tgaggagcag gttggactgg ccatccgaag caagattgca gatggcagt 360
 tgaagagaga agacatatc tacacttcaa agctttgggt caattcccat cgaccagagt 420
 tggtcgacc agccttgga aggtcactga aaaatcttca attggattat gttgacctct 480
 accttattca ttttccagt tctgtaaagc cagggtgagga agtgatccca aaagatgaaa 540
 atggaaaaat actatttgac acagtggatc tctgtgccac gtgggaggcc gtggagaagt 600
 gtaaaagatgc aggattggcc aagtccatcg ggggtgccaa cttcaaccgc aggcagctgg 660
 agatgatcct caacaagcca gggctcaagt acaagcctgt ctgcaaccag gtggaatgtc 720
 atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaaagac attgttctgg 780
 ttgcctatag tgctctggga tcccaccgag aagaaccatg ggtggaccgc aactccccgc 840
 tgctcttgga ggacccagtc ctttctgctc tggcaaaaaa gcacaagcga accccagccc 900
 tgattgccct gcgctaccag ctrcagcgtg ggggtgtggg cctggccaag agctacaatg 960
 agcagcgcac cagacagaac gtgcagggtt ttgagttcca gttgactgca gaggacatga 1020
 aagccataga tggcctaacc agaaatgtgc gatatttgac ccttgatatt tttgctggcc 1080
 ccctaatta tccattttct gatgaatatt aacatggagg gcattgcatg aggtctgcca 1140
 gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctgggtg ctggacacat 1200
 cgcctctggt taaatctctc ctgcttgggt atttcagcaa gctacagcaa agcccattgg 1260
 ccaga 1265

<210> 96
 <211> 568

<212> DNA
<213> Homo sapiens

<400> 96
ccagtgtggt ggaattcggg ttaattacaa aatttgatca cgatcatatt gtagtctctc 60
aaagtgtctt agaaattgtc agtggtttac atgaagtggc catgggtgtc tggagcacc 120
tgaaactgta tcaaagttgt acatatttcc aaacattttt aaaatgaaaa ggcaactctcg 180
tgttctctct actctgtgca ctttgctgtt ggtgtgacaa ggcatttaaa gatgtttctg 240
gcattttctt tttatttgta aggtgggtgt aactatggtt attggctaga aatcctgagt 300
tttcaactgt atatatctat agtttgtaaa aagaacaaaa caaccgagac aaacccttga 360
tgctccttgc tcggcggttg ggctgtgggg aagatgcctt ttgggagagg ctgtagctca 420
gggcgtgcac tgtgaggctg gacctgttga ctctgcaggg ggcatccatt tagcttcagg 480
ttgtcttggt tctgtatata gtgacatagc attctgctgc catcttagct gtggacaaag 540
gggggtcagc tggcatgaga atattttt 568

<210> 97
<211> 546
<212> DNA
<213> Homo sapiens

<400> 97
ttgtaccgta tctgtaggca tctgtaaat aattccaagg ggaaaactaa acgaggacgt 60
gggttgatct ctgccagggt gagtggggct cacacgctag ggtgagatgt cagaaagcgc 120
ttgtatttta aacaacaaaa aagaattgta aggttggtct gctgccaggc ttgcaactgcc 180
gttccctggg gtgtgcatct tcgggaaagg tgggtggcgg gcgtccacta ggtttcctgt 240
cccctgctgc tccttcctga agaaaatgaa atattctatg cctaatactc acacgcaaca 300
tttcttgtag tttgtaagtc gtttgcgaga atgcagacca cctcactaaa ctgtaaacgg 360
taaagagatt tttacttttg gtctccgtga gtcgcatctc tactaagggt tacacaggaa 420
ttccacctga agacttggtg taaagttcta cagcgcgcac tgtaactga acgtcttttt 480
cttcagccta tacgcggatc cttgttttga gctctcagaa tcactcagac aacattttgt 540
aactgc 546

<210> 98
<211> 547
<212> DNA
<213> Homo sapiens

<400> 98
tactgggtgc caagctatgt gccaggcact ttacatgtat tgatttaaca cttaacagcc 60
actctatatt attccctttt tacagatgag gcaatttaag ctcaaagcat ttaagtagac 120
aaccaacctt gaatcacata gcaaatgaca gaagccagag gcctcccaag tctctctaac 180
tccaaacctt atgcttactc tactatatca cactaccttg caataggaca aagggaatat 240
gtggtaaaact atgttccag catctaaaag ccaggagtgg ttttcatttt tctttaagaa 300
gatgatagtg tgatttgaaa catatctgaa tttcagaaga ggggactttt aaaaattgcc 360
actcataagg aaagaaagaa ctttttcaca tatttttgaa agaaacgatg gtgagaagat 420
attcttgata atagatatat gctaacattt gctttgggtg ttttgtaggt tagatttttt 480
tgggtgtgtac tttataggct tgcatattgc ttactttaaa cagctgaagt tctaagtaag 540
agtgttc 547

<210> 99
<211> 122
<212> DNA
<213> Homo sapiens

<400> 99

```

cagcctttct gtcacatctt ccacagccca cccatcccct gagcacacta accacctcat 60
gcaggcccca cctgcccaata gtaataaagc aatgtcactt ttttaaaaca aaaaaaaaaa 120
aa                                                    122

```

<210> 100

<211> 449

<212> DNA

<213> Homo sapiens

<400> 100

```

ctgacggcct tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga 60
ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta 120
gggtgtctcag ggctgggttg gggtcctaaag tgtaaggacc ccctgccctt agtggagagc 180
tggagccttg agacattacc ccttcacacg aaggaatttt cggatgtttt cttgggaagc 240
tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt 300
catgcggtta agttgaggtt atcttgggat aaagggtctt ctagggcaca aaactcactc 360
taggtttata ttgtatgtag cttatatattt ttactaaggt gtcaccttat aagcatctat 420
aaattgagtt ctttttctta gttgtatgg                                     449

```

<210> 101

<211> 131

<212> DNA

<213> Homo sapiens

<400> 101

```

ccatgttctc ttttgactac gcataatgtga gatttgcccc tccgccccgc tcgtgatagc 60
catccagatc ttttacctgg ccctgtcttg gagaatctgt tttcaatctc cactgattgc 120
ccccttgctg g                                                    131

```

<210> 102

<211> 199

<212> DNA

<213> Homo sapiens

<400> 102

```

ctgctgcgcc tgatgctggg acagccccgc tcccagatgt aaagaacgcg acttccacaa 60
acctggattt tttatgtaca accctgaccg tgaccgtttg ctatatcctt ttttctatga 120
aataatgtga atgataataa aacagctttg acttgaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa                                                    199

```

<210> 103

<211> 321

<212> DNA

<213> Homo sapiens

<400> 103

```

tttttttaggt ttttaaactt tttatttgca tattaaaaaa attgtgcatt ccaataatta 60
aaatcatttg aacaaaaaaa aatggcactc tgattaaact gcattacagc ctgcaggaca 120
ccttgggcca gcttgggttt actctagatt tcaactgtctg cccaccccca cttctttcac 180
cccacttttt ccttcaccaa catgcaaagt ctttccttcc ctgccacca gataatatag 240
acagatggga aaggcaggcg cggccttcgt tgtcagtagt tctttgatgt gaaaggggca 300
gcacagtcac ttaaacttga t                                                    321

```


<210> 104
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 104
 tttttttttt tttttatttt tttttttgca tcaaaaaact ttattttccat ttggcccaag 60
 gcttgtagg atagttaaaa aagctgccta ttggctggag ggagaggctt aggcaaaacc 120
 cctattactt tgcaaggggc ccttcaaaag tctctgggct tctatttcaa ccgcgatgat 180
 gtggctctgg aaggcgtgag ccactttttc cggaactgg ccaaggaaaa gcccgagggc 240
 tacaaccgtt tcctgaaaaat gcaaaaccag cggggcggcc gcgctctttt ccaggacatc 300
 aaaaagcca 309

<210> 105
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 105
 cttattttctg catgggtcgg agagtgggag ggactgcttt actgagttat agtgaatgta 60
 gttttaacct aagcgctca catgactaac tcctcatcca tcaagaatga gctcagctct 120
 cacttcccca ctctcacc cctgtaaaag taacctttct ccaaggttat gcttcaacag 180
 gaatagctaa catttattaa attgtggcac gtaagtatct tggatatatt ggctcattga 240
 atcctcacac ctactatttt acagagatgc cagtggggct tgagattgaa tcacttgccc 300
 aggctccac tgctggtaaa cagtagagg ggctcctgac ccacagctct ggcttgacaa 360
 cccattccct caactggga tcccgattc ccttatcacc ctgttgattt ctccataggc 420
 tgtggtaaca ttgttgcat gaatggaccg ttgaaatagg gcctggcagg gagaaattca 480
 ggaaatgaat gaatggttct tccttgccag cctttgatga cttacaagcc ccttcaaggg 540
 ggaaagccat ttttctcctt gggactcctt gaaagcccgg gagccctgcc t 591

<210> 106
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 106
 ctgccactcc tgctctgct accccgaaac cggagaggga gctcaataat aacacaggtc 60
 ccactaaact aattaagggtg ttggcataac ctgtcattga attcaagtgt ccaacaactg 120
 tttgcttaaa atatcattag acctaataatt tttttcaaag gcacaaagtt taaacatggg 180
 gggggcggtt gttgagagggt gtctgggata cccttaaacc caaaaaagtg atttgttccc 240
 ccttgcccag aagggtgact gtccactgg gcctgtcacc acaggacatt ttccatgaca 300
 agcactcacc ttcttgggga aggggcacatc gggtggcaca ggaaaggccc aagtgagggg 360
 ccaactctgta cattaatact ttggtgatta atgtttgggg agaggcagga ttctcaccca 420
 cctttttgac ttcaaacact ctactcaag 450

<210> 107
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 107
 tcgacgaaag ttactgtcac tcagttgtaa atccatcagc ttttcacctg ttaaaaattt 60
 tgcaaaaatat acatgttctc ctctgtttt caattcttcc atcttttttc ttgagg 116

<210> 108
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 108
 ctgctcgaag ttgtcaaaac ccacgtgcag ggcaatggag agtccgatgg ccgaccacag 60
 cgagtagcgt cctcccaccc aatcccagaa ctcgaaacatg ttttgagggt caattccaaa 120
 ctctttcact ttggttgtgt tagtagacag ggcaacaaa tgcttcgcca ctgcagtagg 180
 atccttgggc gcttgagaa accactcctt cgccgtctct gcattcgtga tggctctcctg 240
 ggtagtaaaag gtcttggagg caatgatgaa caggaggagac tcggggttca g 291

<210> 109
 <211> 662
 <212> DNA
 <213> Homo sapiens

<400> 109
 gctgtttcca cagtacgcct gcctcacacc ttgcatgctg ccaacatcac catcattgag 60
 caccagaagt gtgagaacgc ctaccccggc aacatcacag acaccatggt gtgtgccagc 120
 gtgcaggaag ggggcaagga ctctgcccag ggtgactccg ggggccctct ggtctgtaac 180
 cagtctcttc aaggcattat ctctggggc caggatccgt gtgcgatcac ccgaaagcct 240
 ggtgtctaca cgaaagtctg caaatatgtg gactggatcc aggagacgat gaagaacaat 300
 tagactggac ccaccaccca cagcccatca ccctccattt ccacttgggtg tttggttcct 360
 gttaactctg ttaataagaa accctaagcc aagaccctct acgaacattc tttgggcctc 420
 ctggactaca ggagatgctg tcaacttaata atcaacctgg ggttcgaaat cagttagacc 480
 tggattcaaa ttctgccttg aaatattgtg actctgggaa tgacaacacc tggtttggtc 540
 tctgttgtat cccagagccc aaaagacagc tcctggacct tgccccgggg cggcccgctc 600
 ggaaaggggg cgaaatttct tcaagaatat ttccatttcc aaaaacttgg ggccgggggc 660
 cc 662

<210> 110
 <211> 323
 <212> DNA
 <213> Homo sapiens

<400> 110
 tctgtgaaa cagcccattt tctacctac tgtgggttgc tgctcaggag gaacgatata 60
 cgccaataca agcaggaaat ctgcagctcc tctgctatgt gcctcagaac actttcaatt 120
 tttctggtca atgctctgat taggtatcat acataaaagc cagcatatta gtttaaatct 180
 ctaacaaaaa actatatttt ccaaagtcac tatcatttgg gccaatgaag tgatcttttc 240
 gtgctttgtt gagcttcac tttagggcat ctcttctttc ttccattca tgaagttcgg 300
 catttccatg tgcaaattta cag 323

<210> 111
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 111
 tccagtgcgc tccagcctta tctaggaaag gaggagtggg tgtagccgtg cagcaagatt 60
 ggggcctccc ccattccagc ttctccacca tcccagcaag tcaggatata agacagtcct 120
 ccctgacccc tcccccttgt agatatcaat tcctaaacag agccaaatac tctatatcta 180
 tagtcacagc cctgtacagc atttttcata agttatatag taaatggtct gcatgatttg 240

tgcttctagt gctctcattt ggaaatgagg caggcttctt ctatgaaatg taaagaaaga 300
aaccactttg tatattttgt aataccacct ctgtgg 336

<210> 112
<211> 218
<212> DNA
<213> Homo sapiens

<400> 112
tttttttttt tttttttttt tccagtcagg agtattttta atcactgtct acagagacac 60
ctacatacac acacgggtgg ggaatgaacc caaagttttt agtgaagtc tctcagggcc 120
caccccgtag cacagacctt cctcgggtgc agagattctg ggcaaagcat ccgtgctctc 180
atgagattat cctggggaga tttagaagaa ttttggg 218

<210> 113
<211> 533
<212> DNA
<213> Homo sapiens

<400> 113
ctgcaccgac agttgcgatg aaagttctaa tctcttcctt cctcctgttg ctgccactaa 60
tgctgatgtc catggtctct agcagcctga atccaggggt cgccagaggc cacagggacc 120
gaggccaggc ttctaggaga tggctccaga aaggcggcca agaattgtgag tgcaaagatt 180
ggttcctgag agcccccaga agaaaattca tgacagtgtc tgggctgcca aagaagcagt 240
gcccctgtga tcatttcaag ggcaatgtga agaaaacaag acaccaaagg caccacagaa 300
agccaaacaa gcatcccaga gcttgccagc aatttctcaa acaatgtcag ctaagaagct 360
ttgctctgcc ttgttaggag ctctgagcgc ccactcttcc aattaaacat tctcagccaa 420
gaagacagtg agcacaccta ccagacactc ttcttctccc acctcactct cccactgtac 480
ccacccttaa atcattccag tgctctcaaa aagcatgttt ttcaagatct aaa 533

<210> 114
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 43
<223> n = A,T,C or G

<400> 114
ccatatctgc tcggcgctac ttctttcttg gattgatcct gantgatgca ttggcgatgc 60
ctttggagaa ggacatgtga tgtgatggtc ttcacgttcc acatgtactc gggcaaatag 120
ggggacaaac tgaagttaaa caggtcgaaa ctagaggagc tgctgaccct ggagctgacc 180
actttcttgg ggaaaaggac acatgaaggt gctttgcaaa agctgatgag caatctggac 240
accaacatag gacaacaacg t 261

<210> 115
<211> 267
<212> DNA
<213> Homo sapiens

<400> 115
cctctcctgt gggttccaga ccctgttcca gcaacaattg ctgggacacc tgggccgact 60


```

gctccacctc gccagggcct ggccctctcc atctcagccc tgacagccac ccagtataa 120
acacagcagg cttcctaagc aatgtgacgc accagagggg tgggtgtaca cgttccccctt 180
gaagtcattc gaaaattaga gaacagattt gcctcatagc tgaagagaga ccctattcca 240
agcatgaatg gccttgacaa tggttcct 267

```

```

<210> 116
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<400> 116
ctgatgacct ggggtctagt gaaaatgcag ggtcagattc agtgggtctg gggctctgaat 60
ctctaaggcg ctgccaagtg atgctgatgc tcctggcttg tggaccaccc tgtgtatagc 120
aaagctctag actaggaggt ctcaaccttg gctgcacaga attatctggg gagtttttaa 180
atttcccagt gccagggctg cattcataat atagtagaga caggggtttg ccatgctgg 239

```

```

<210> 117
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<400> 117
aaaaaacttt tatattgctg catcttccac agttcttttg gtagtctctg aacttaaaat 60
ttgtaggagt ttagactac ctaaattttt aagttatgga tttgttcata ggtgttaggg 120
gtaggtaaag aaggaaacag acaagaaaat ggcttcttga ggtggcag 168

```

```

<210> 118
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<400> 118
aaaaaaaaaga gtttatttag aaagtatcat agtgtaaaca aacaaattgt accactttga 60
ttttcttgga atacaagact cgtgatgcaa agctgaagtg tgtgtacaag actcttgaca 120
gttgtgtctc tctaggaggt tgggtttttt 150

```

```

<210> 119
<211> 154
<212> DNA
<213> Homo sapiens

```

```

<400> 119
aaactgtgtg agatattaac cagccgcctt gttataaaat caggaaatcc aaacagcgat 60
ttacaccgat taacaccccc ttttatattt tttcaaatac actgagaaaa taatcaaacy 120
ttttcatctc tcttgtcttt tttgtttttt tcct 154

```

```

<210> 120
<211> 314
<212> DNA
<213> Homo sapiens

```

```

<400> 120
ctgcgtggag tgacgggagg agggaatcac tgtgtgtgcy agagtgcctc agactcaatt 60
tccaaaataa ttttcacccc tctaagcatg taaattcaaa gatggatcct tcatagaaat 120

```



```

taaaaaaatca atttgagctc atttcgaata cagaacaagt atggcacaga tggaagtcct 180
gccacgtttc ctttaaatgat gctgactctt gtatcacaca ggccagcatg aagtttctta 240
ctcagacttt acaggcattt tccgtaattc aatcagtcct gctcccagca caacacagga 300
ggtgattcga gaat                                     314

```

```

<210> 121
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 121
aaaaaaaaacc taattcattg aagtaataac caaataattt tcaatcttga ttcaactgtg 60
attcaaatct tacaccattt gcccttctta tgaatttatg tataaaattt tttaagagtc 120
agagtttttt tttcttgatt aattggatgt atttcacaga atttccaaact gctcacgtta 180
gttttcttcc ttttagagtt gatctctcta atgtattaga tcttcatgcc tttgatagtc 240
tctctggaat aagtttgcag aaaaaacttc agcatgtgcc aggaacacaa cctcaccttg 300
atcagagtat tgtacaatca catttgacgt accaggaaat gcaaaggaag aacatcttaa 360
tatgtttatt cagaatcttc tgtgggaaaa gaatgtgaga aacaaggaca atcactgcat 420
ggaggtcata aggctgaagg gattgggtgtc aatcaacgac aaatcacaac aagtgattgt 480
ccagggtgtc catgagctct gtgatctgga ggagactcca gtgagctgga aggatgacac 540
tgagagaaca aatcgattgg tcctcattgg cagaaattta gataaggata tccttaaaca 600
g                                                    601

```

```

<210> 122
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 122
ctgtttctaa ttgcttttgt gactgttacc ttttagttca tgccccccca aagagctaaa 60
tttcacattt ttacctacaa aattgatttt taattcctgc aaataattta ccattatgag 120
ctacaagggtg ggcaacagcg cctgaggatc taattttatg catattactc ccaagtattt 180
taacacttgt tggaagaagc atatctggat caataaaaca ctgtcccatc aaccatttga 240
gtggggagag ggagaagctc ttctgtaagt aagattctgg caagctcttt gaaatgagtc 300
ttctttccca cagattttct ctactcttct aatacaaca gataggagaa gagggaatag 360
aaacctggag gaacttgaat atttttgttc tagatagaga tacagttatt gaaaaggaaa 420
cctagaaagt agtcacacgt cgcttattta ggccagaagt aattgtactg ggcaaaaatt 480
tcactt                                             486

```

```

<210> 123
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<400> 123
ctgggtgggtc tttttttcct ctcagagctc aagcctgtag tgcctgatgt catttctttc 60
aagttgccc cagtatctcc acttaaaacta ggctagtaac caaaataatg tggaccttct 120
ttaggaaaca gtgtgggaga ataggagtcc agcgtgaaga taaactggaa atatttgggc 180
gtcttgatcc tggctaogca ccacctcagt gttgttctta cataaacaag gccctttt 239

```

```

<210> 124
<211> 610
<212> DNA
<213> Homo sapiens

```


<220>
 <221> misc_feature
 <222> 4, 12, 30, 73, 75
 <223> n = A,T,C or G

<400> 124
 ccancaagt cnttgatgat cactgaccn cgcgcgcctg ctggaccaag gtggctgcgg 60
 ggaaatcgcc acngngcttt cggtttttctt ggtgaaggaa tacaccgcgc cgacagcagg 120
 ttttcagtca gggtcaggga ctggtgcttg cgcgcgaaaa tcaccggtac gccgaggttc 180
 aggcgggtca tgatcgccgg tgcaatgccc gaggcttcga tggtagcat ctggtgatg 240
 cccgaatcct tgaacaacgc agcgaattca tcaccgatca gtttcacag cgccgggtcg 300
 atctggtggt tcagaaaggc gtcgaccttg agtacctgat cggaaagcac gatgccttct 360
 tcgcgaattt tcttgtgcag tgcttccacg aaagcttcct ctggtggcgc aacacgcgcc 420
 gaaagtagat taaaaagtag tcgattctag cgctttaaca tcgcgcgtat atccgccagg 480
 gcggtattgc cgcgaacggc tttgacttcg gttggtgtgt cgtcgttgcc ttcccatgcc 540
 aggtcatccg gcggcagttc gtcaaggaac cggctggggg cacaatcaat gatctcgccg 600
 tactgcttgc 610

<210> 125
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 125
 ctatagggt cgagcggcgc cccgggcagg taaaaaatca gcccctaatt tctccatgtt 60
 tacacttcaa tctgcaggct tcttaaagtg acagtatcct taacctgcca ccagtgtcca 120
 ccctcgggcc cccgtcttgt aaaaagggga ggagaattag ccaaactg taagctttta 180
 agaagaacaa agtttt 196

<210> 126
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 126
 aaattagtta aaaaaatgca ttccctcattt gatatagcca cattccaaat gcttaaaagc 60
 cgcattgtatc tagtgactac catactggag agtacaaata tagaacttta cccgtcactg 120
 cagacagttc tgttggtattg tgcagcattg gacaatatat acagtttgcc tgtatatgag 180
 aaagagagag agagagagag tgtgtgtgtg tgtgtgtgtg tgaagtgcaa taaggctgac 240
 aggcac 247

<210> 127
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 127
 cctccacggc atggcgcaat tgttggttcag gggcgcgcag gttgctgccc atgcgatgt 60
 agatacgttc cactgtctta ctgcacagac gcactcgaag cgtcgccagc gctacgtttg 120
 cgcttgctgc cactgctgcg gcgacgcttt ttccgggcat cgccggtggc ttgcgctttg 180
 ctgctgagct ctttgatcat ctgcgggcgc tggctgtcgt tggcgtcctg gtagtcggtc 240
 caccactcgc caaggccgct ggtctgttcg ccggcgcttt cagcgagcag caggaagtca 300
 tagcccgcca cggaagcgcg ggttgtccag caacaggtcg gcacgtttgc cgctgcggcg 360


```

tggcaggcgc tcttgcattgt cccagatttc acggatcggc atggtgaagc gtttcgggat 420
ggcgatgcgc tggcattgct cggcgatcag ctctgtgagca gcttcctgca tggctggaat 480
tgccggcatg ccacgggtctt gcaggcgcat gacgcgtttc gaaagcgcgg gccacaacag 540
ggcggcaaaag aggaacgcgc ggggtgaccgg tttgttctgc ttgatgcgca 590

```

```

<210> 128
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<400> 128
ctgcccattgg aaaccctcca ggagctgctg gacctgcaca ggaccagtga gagggaggcc 60
attgaagtct tcatgaaaaa ctctttcaag gatgtaacca aagtttccag aaagaattgg 120
agactctact agatgcaaaa cagaatgaca tttgtaaagc gaacctggaa gcatcctcgg 180
attattgctc ggctttactt aaggatattt ttggtccctt agaagaagca gtgaagcagg 240
gaattttatt taagccagga ggccataatc tcttcattca gaaaacagaa gaactgaagg 300
caaagtacta tcgggagcct cggaaaggaa tacaggctga agaagtcttg cagaaatatt 360
t 361

```

```

<210> 129
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<400> 129
aaaaatacaa attcagtaag acttttgctc taacaacaat ttttcaaaac gaatcaacaa 60
caaaaaagta tccagtgttt cttttcttat gaagatataa taaaacacag tattggtaag 120
cacattttta cagtatgctt ttcttttgta gggaaaggag atatggctat gtctaaccatc 180
gtgggatcca atgtgtttga tatgttgctc cttggtattc catggtttat taaaactgca 240
tttataaatg gatcagctcc tgcagaagta aacagcagag gactaactta cataaccatc 300
tctctcaaca tttcaattat ttttcttttt ttagcagttc acttcaatgg ctggaaacta 360
gacagaaaag ttggaatagt ctgcctatta tcataacttg ggcttgctac attatcagtt 420
ctatatgaac ttggaattat tggaaataat aaaataaggg gctgtggagg ttgatattat 480
taatagtgtt atgcagaaaa tatgaatggc agggaggggc agagagaaaa atccatttct 540
tcattt 546

```

```

<210> 130
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 611, 631, 668, 689
<223> n = A,T,C or G

```

```

<400> 130
ggggcctctt cctaaaggca ctaatcccat ccaatagggc ttaacctcat gacttaaatca 60
actttcaaaag acaccacatc ctaatgccat cacatcagaa tttaggcttc aacatatgaa 120
ttttggggggg acacaaacat tcacctcata gcattcattg tttcttgta ttggcaaagc 180
caagactcac attgtctaag ttatttgact tttgagtcg cagatgtgaa aacagtgtca 240
aacagtccag cttcatgagt ggagaacagc atttgtgaca accaccaaag tacctctgtg 300
gtcagtgtcc tcaaccaggg cacagcatca tggaccagag cctctgcagg gcacagagga 360
gtgggtgagga acaggggctc tggagcaacc ccacttcctt ctgctttgta tatggggggg 420

```



```

tctgcacatg actgcatttg aaaagggcct cactgcgctt gctgaaggag tgcacttgag 480
ctagcggaga gttcccagag ggtgtctgga agaagcaaag gctattcttt gtttcaactca 540
gttatagatg gaagtcagac acttctgcct gaagtacttt cacacactcc acagtcttaa 600
gaaggatgga naaagcatgc caactactca naaaaccaca ggtgttcaag caatggatc 660
cttttatncc tacaactagt ggacaaagng gggcctctgt aatttgggaa agctaggaaa 720
actttttctg ggg                                     733

```

```

<210> 131
<211> 305
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 16, 19
<223> n = A,T,C or G

```

```

<400> 131
aaacacatac gaatanttna actgtgatta tgaagtgaca gccggctaaa tatgtcttgt 60
atcttctctc ttcttttttt tgctaactca tcctttattc cattcctgct tccatggtaa 120
tgcaggctca aataaattac taggatacaa gattacttca agcctctttt ctgtggaact 180
cataatatga taagcatttg ttacaagatt gcctgtagtt gtttagggga caaattatat 240
tagggaaaga aagtctttct ttagttgggt aaattttcta ttataattgg gtactaaatt 300
tattt                                             305

```

```

<210> 132
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 132
aaacaatgct aactcatttt ttggcaaagt gctgtattgt tcagtctgtg tacaaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagcggct 120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaaa gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaaca aagccactta aaaaaaaaaa aacacacacg 360
caattattaa agttcaaaat ctctggagga aaatacaagc aaaaccactc atacactcca 420
agcctgaaac acacatctaa cctccccagg tactggtttg gttttcagag gtccacctag 480
aaaacaaatc taaaacttca ggcaaaacag agcaaaactg gacatttaac aattacacaa 540
ttttt                                             545

```

```

<210> 133
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 36, 68
<223> n = A,T,C or G

```

```

<400> 133
aatattttatt actaatatct tataatgttt tgtggnacca tggcatacct tgggtactat 60

```